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APPLICANT: Rainer TILSE

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METHOD AND INSTRUMENT FOR INTRODUCING A DENTAL

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METHOD AND INSTRUMENT FOR INTRODUCING A DENTAL

FILLING MATERIAL WITH A SYNTHETIC RESIN BASE INTO A

TOOTH CAVITY

THE COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

AMENDED CLAIMS

- 1. (cancelled)
- 2. (cancelled)
- 3. (currently amended) Hand-held device for filling a filling compound synthetic resin-basis synthetic resin filling compound from a supply container (9) into a cavity of a tooth using , the device comprising:

a nozzle (12) from which the filling compound is ejected into said cavity,

having means (4, 5, 6) for conveying the filling compound from the a supply container (9) to the nozzle (42),

and-having a handle portion (3), and

characterized in that the hand-held device comprises a sound generator, especially an ultrasound generator (13) that sets the nozzle (12) into oscillation.

- 4. (currently amended) The hand-held device as defined in Claim 3, characterized in that wherein the nozzle (12) is a short small tube.
- 5. (currently amended) The hand-held device as defined in Claim 3 er-Claim 4, characterized in that wherein the supply container (9) sits exchangeably in a

holder (2) and that the sound generator (13) is coupled to the holder (2) in oscillation-transmitting fashion.

- 6. (currently amended) The hand-held device as defined in any of Claims 3 to 5, characterized in that Claim 3, wherein the sound generator (13) comprises a piezoelectric oscillator.
- 7. (currently amended) The hand-held device as defined in any of Claims 3 to 5, characterized in that Claim 3, wherein the sound generator (13) comprises a magnetostrictive oscillator.
- 8. (currently amended) The hand-held device as defined in any of-Claims 3 to 5, characterized in that Claim 3, wherein the sound generator comprises a pneumatically excited oscillator.
- 9. (currently amended) The hand-held device as defined in any of Claims 3 to 8, characterized in that Claim 3, wherein a common actuating element (4) is provided for the sound generator (13) and the conveying means (4, 5, 6).
- 10. (currently amended) The hand-held device as defined in any of C aims-3 to-9, characterized in that Claim 3, wherein the hand-held device is configured in the way of a spray gun.
- 11. (currently amended) The hand-held device as defined in any of Claims 3 to 9, characterized in that Claim 3, wherein the hand-held device is configured in the way of a dentist's handpiece.
- 12. (currently amended) The hand-held device as defined in Claim 10 or Claim 11, characterized in that it Claim 9, wherein said actuating element comprises a lever or a push button as actuating element (4).
- 13. (new) The hand-held device as defined in Claim 3, wherein said sound generator is an ultrasound generator.
- 14. (new) A method for filling a filling material comprising the steps of: providing a synthetic resin having a viscosity which is lowered under the action of vibrations, and

injecting said synthetic resin into a cavity of a tooth while subjecting the synthetic resin to the action of sound.

- 15. (new) The method as defined in Claim 14, wherein the synthetic lesin is injected into the cavity using a nozzle, and the nozzle is subjected to the action of sound.
- 16. (new) The method as defined in Claim 14, wherein the synthetic resin is subjected to ultrasound.